



Federal Implementation Guideline for Electronic Data Interchange

ASC X12 003060 Transaction Set 856W Ship Notice/Manifest (Hazardous Waste Manifest)

Implementation Convention



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¹At Boulder, CO 80303.

²Some elements at Boulder, CO.

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Reports on Information Technology

The National Institute of Standards and Technology (NIST)'s Information Technology Laboratory (ITL) develops standards and guidelines, provides technical assistance, and conducts research for computers and resources. As part of the overall federal effort to establish a single face to industry for conducting electronic commerce, ITL has been designated as the organization responsible for coordinating the development of Federal Implementation Conventions (ICs) for Electronic Data Interchange (EDI). ICs are defined by functional-area experts who create and select options from standard EDI Transaction Sets to yield the implementations to be used for practical EDI. These ICs are made available to federal agencies and industry by electronic means and this Special Publication Series.

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856 Ship Notice/Manifest

Functional Group ID=SH

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

Notes:

1. Organizations use this transaction set to transmit shipment manifest information of hazardous waste being transported for disposal.

Subordinate/related uses of the transaction set include:

- a. Certify transfer/receipt of the waste to the generator and others as needed.
- b. Notify state environmental agencies of failure to receive certification/confirmation.
- c. Provide cradle-to-grave manifest audit trail information for disposal.
- d. Provide a summary report of waste imported into the United States.
- 2. Use a single occurrence of this transaction to transmit one or more line items on a single manifest or summary report.
- 3. This transaction set contains the data requirements to electronically transmit the Federal Uniform Hazardous Waste Manifest (UHWM) including continuation sheets.
- 4. Users may need to refer to the Shipment Container Conversion Table to cross reference X12 container codes to UHWM container types. This table can be found on the National Institute of Standards and Technology (NIST) World Wide Web Site.

Heading:

| Must Use | Pos. <u>No.</u> 010 | Seg. <u>ID</u> ST | Name Transaction Set Header | Req. <u>Des.</u> M | <u>Max.Use</u> 1 | Loop Repeat | Notes and Comments |
|----------|---------------------------|-------------------------|-----------------------------------|--------------------------|---------------------|----------------|--------------------|
| Must Use | 020 | BSN | Beginning Segment for Ship Notice | M | 1 | | |
| | 040 | DTM | Date/Time Reference | 0 | 10 | | |

Detail:

| | Pos. No. | Seg. <u>ID</u> | Name | Req. <u>Des.</u> | Loop <u>Max.Use</u> <u>Repeat</u> | Notes and Comments |
|----------|-------------|-------------------|------------------------|---------------------|--------------------------------------|--|
| | <u> </u> | | LOOP ID - HL | | 200000 | the state of the s |
| Must Use | 010 | HL | Hierarchical Level | M | 1 | c1 |
| | 020 | LIN | Item Identification | О | 1 | |
| Not Used | 030 | SN1 | Item Detail (Shipment) | О | 1 | |

| | | | | · | | | |
|----------|-----|-----|--|---|---|----------------|----|
| Not Used | 040 | SLN | Subline Item Detail | О | 1000 | | |
| Not Used | 050 | PRF | Purchase Order Reference | O | 1 | | |
| Not Used | 060 | PO4 | Item Physical Details | О | 1 | | |
| | 070 | PID | Product/Item Description | O | 200 | | |
| | 080 | MEA | Measurements | O | 40 | | |
| Not Used | 090 | PWK | Paperwork | O | 25 | | |
| Not Used | 100 | PKG | Marking, Packaging, Loading | 0 | 25 | | |
| | 110 | TD1 | Carrier Details (Quantity and Weight) | 0 | 20 | | |
| Not Used | 120 | TD5 | Carrier Details (Routing Sequence/Transit Time) | O | 12 | | |
| Not Used | 130 | TD3 | Carrier Details (Equipment) | O | 12 | | |
| | 140 | TD4 | Carrier Details (Special Handling, or Hazardous Materials, or Both) | О | 5 | | |
| | 150 | REF | Reference Identification | 0 | >1 | | |
| Not Used | 151 | PER | Administrative Communications Contact | О | 3 | | |
| | 152 | LH1 | LOOP ID - LH1 Hazardous Identification Information | O | | 100 | |
| | 153 | LH2 | Hazardous Classification Information | | 1 | | |
| | 154 | LH3 | Hazardous Classification Information Hazardous Material Shipping Name | 0 | 4 | | |
| | 155 | LFH | Freeform Hazardous Material Information | _ | 12 | | |
| | 156 | LEP | • | 0 | 20 | | |
| Not Used | 157 | LH4 | EPA Required Data Canadian Dangerous Requirements | 0 | 3 | | |
| Not Used | 158 | LHT | Transborder Hazardous Requirements | 0 | 1 | | |
| Not Used | 159 | LHR | · | 0 | 3 | | |
| | | | Hazardous Material Identifying Reference Numbers | O | 10 | | |
| Not Used | 160 | PER | Administrative Communications Contact | O | 5 | | |
| Not Used | 161 | LHE | Empty Equipment Hazardous Material Information | 0 | 1 | | |
| | | | LOOP ID - CLD | | | 200 | |
| | 170 | CLD | Load Detail | О | 1 1980 - 1 1980 - 1 1980 - 1 1980 - 1 1980 - 1 1980 - 1 1980 - 1 1980 - 1 1980 - 1 1980 - 1 1980 - 1 1980 - 1 1 | + m* + = = = = | ** |
| | 180 | REF | Reference Identification | О | 200 | | |
| Not Used | 185 | DTP | Date or Time or Period | О | 1 | | |
| Not Used | 190 | MAN | Marks and Numbers | 0 | >1 | | |
| | 200 | DTM | Date/Time Reference | O | 10 | | |
| Not Used | 210 | FOB | F.O.B. Related Instructions | 0 | 1 | | |
| Not Used | 215 | PAL | Pallet Information | О | 1 | | |
| | | | LOOP ID 2 N1 | | | 200 | |
| | 220 | NI | Name | O | 1 | 200 | |
| | 230 | N2 | Additional Name Information | О | 2 | | |
| | 240 | N3 | Address Information | О | 2 | | |
| | 250 | N4 | Geographic Location | О | 1 | | |
| | 260 | REF | Reference Identification | O | 12 | | f |
| | 270 | PER | Administrative Communications Contact | О | 3 | | |
| Not Used | 280 | FOB | F.O.B. Related Instructions | О | 1 | | |
| Not Used | 290 | SDQ | Destination Quantity | 0 | 50 | | |
| Not Used | 300 | ETD | Excess Transportation Detail | 0 | 1 | | į |
| Not Used | 310 | CUR | Currency | 0 | 1 | | |
| Not Used | 320 | SAC | Service, Promotion, Allowance, or Charge | 0 | >1 | | İ |
| Not Used | 330 | GF | Information Furnished Goods and Services | 0 | 1 | | |
| | | | | | | | l |

| Not Used | 335 | YNQ | Yes/No Question | 0 | 10 | |
|----------|-----|-----|-------------------------|---|-----|-----|
| | | | LOOP ID - LM | | | 10 |
| Not Used | 340 | LM | Code Source Information | U | • | į į |
| Not Used | 350 | LQ | Industry Code | M | 100 | |
| | | | LOOP ID - V1 | | | >1 |
| Not Used | 360 | V1 | Vessel Identification | О | 1 | |
| Not Used | 370 | R4 | Port | О | >1 | |
| Not Used | 380 | DTM | Date/Time Reference | 0 | >1 | |

Summary:

| | Pos. <u>No.</u> | Seg. <u>ID</u> | <u>Name</u> | Req. <u>Des.</u> | Max.Use | Loop <u>Repeat</u> | Notes and Comments nl |
|----------|--------------------|-------------------|-------------------------|---------------------|---------|-----------------------|-----------------------------|
| Not Used | 010 | CTT | Transaction Totals | O | 1 | | 11.1 |
| Must Use | 020 | SE | Transaction Set Trailer | M | 1 | | |

Transaction Set Notes

1. Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

Transaction Set Comments

1. The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

 ${
m ST}$ Transaction Set Header Segment:

Position:

Loop:

Level: Heading

Usage: Mandatory

Max Use:

Purpose:

To indicate the start of a transaction set and to assign a control number

Syntax Notes: Semantic Notes:

The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810

selects the Invoice Transaction Set).

Comments:

| | | | Data Biement Sum | imaiy | | |
|----------|------|----------------|---|--|---------------|----------|
| | Ref. | Data | | | | |
| | Des. | <u>Element</u> | <u>Name</u> | | Att | ributes |
| Must Use | ST01 | 143 | Transaction Set Identifier | Code | M | ID 3/3 |
| | | | Code uniquely identifying a | Transaction Set | | |
| | | | 856 X12.10 | Ship Notice/Manifest | | |
| Must Use | ST02 | 329 | Transaction Set Control N | umber | M | AN 4/9 |
| | | | functional group assigned by A unique number assigned | that must be unique within the try the originator for a transaction to this transaction set for contrastation software. This is the so | set rol pu | irposes. |

BSN Beginning Segment for Ship Notice Segment:

Position:

Loop:

Heading Level: Usage: Mandatory

Max Use:

Purpose:

To transmit identifying numbers, dates, and other basic data relating to the transaction set

Syntax Notes: Semantic Notes:

If BSN07 is present, then BSN06 is required. BSN03 is the date the shipment transaction set is created. 1

BSN04 is the time the shipment transaction set is created. 2

BSN06 is limited to shipment related codes. 3

Comments:

BSN06 and BSN07 differentiate the functionality of use for the transaction set.

| | | | Data Ele | ement Summary |
|----------|------------------------------|-------------------------|---|---|
| Must Use | Ref. <u>Des.</u> BSN01 | Data <u>Element</u> 353 | Name Transaction Set | Purpose Code Attributes M ID 2/2 |
| With Osc | BSTVOT | | Code identifying 00 | purpose of transaction set Original Use to indicate an original 856 transaction set. |
| | | | 01 | Cancellation |
| | | | 05 | Replace |
| | | | 07 | Use to indicate that a change has been made to a previous transaction set. When used, all data, whether changed or not, must be retransmitted. When used, the retransmitted data will overwrite the information in the receiving database. Duplicate |
| | | | 18 | Use to indicate the re-transmission of an original 856 transaction set. Reissue |
| | | | 10 | Use to indicate a supplement to the Foreign Waste Shipment Summary. Use only in conjunction with 1/BSN06/020 code RP. |
| Must Use | BSN02 | 396 | shipment Use to identify of concatenation of ID number, follo | I number assigned by the original shipper to identity a specific nunique manifest document number. This is the if the Generator's Environmental Protection Agency (EPA) lowed by the manifest number. |
| • | | | For Foreign Wo | aste Shipment Summaries cite the first reported manifest in |
| Must Use | BSN03 | 373 | Date Date (YYMMD | |
| | | | 2. This date co | nte the transaction set creation date. rresponds to the Universal Time Coordinate (UTC). M TM 4/8 |
| Must Use | BSN04 | 337 | HHMMSSD, or | in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSDD, where H = hours (00-23), M = minutes (00-seconds (00-59) and DD = decimal seconds; decimal seconds |

are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)1. Express the originating organization's time in UTC.

2. Express time in a four-position (Hour Hour Minute Minute) format.

Not Used BSN05 1005 Hierarchical Structure Code ID 4/4 Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set **Must Use** BSN06 640 **Transaction Type Code** X ID 2/2 Code specifying the type of transaction NO **Disposal Shipment Confirmation** A notification from a storage site advising the originator of a disposal release order of the nonpositive action taken on the order Use to indicate a waste shipment from the generator to a treatment, storage and disposal facility (TSDF). **P**1 **Preliminary** Use to indicate a preliminary manifest created for review and concurrence. RP Reporting Use to indicate a Foreign Waste Shipment Summary. Use only mandatory segments and data elements and those specifically noted as being used in a Foreign Waste Shipment Summary. TH Receipt Acknowledgment Advice Use to indicate a certification of receipt to the generator by a TSDF or transporter. TS Transfer Statement Use to indicate a manifest prepared by a TSDF when the waste is released/moved or due to a change in transportation mode/carrier manifest (e.g., from truck to ocean). This is not the original manifest from a

Code indicating the status reason

Status Reason Code

generator.

A95 Past Cutoff Time

> Use only in conjunction with BSN06 codes NO or TS to indicate the generator is forwarding a manifest to a state agency when no receipt has been obtained from the receiving TSDF.

BSN07

641

ID 3/3

DTM Date/Time Reference Segment:

Position:

Loop:

Level: Heading Optional Usage:

Max Use:

Purpose:

To specify pertinent dates and times

At least one of DTM02 DTM03 or DTM06 is required. **Syntax Notes:**

2 If either DTM06 or DTM07 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Must use in a Foreign Waste Shipment Summary to identify the time period of the

| | | | Data Blement Samuely | | |
|----------|------------------------------|------------------------|---|---|--|
| Must Use | Ref. <u>Des.</u> DTM01 | Data Element 374 | Name Date/Time Qualifier Code specifying type of date or time, or both date an | M | ributes ID 3/3 |
| | | | 174 Month Ending | | |
| | | | Use to indicate the end date of period for the Foreign Waste | | |
| Must Use | DTM02 | 373 | Date Date (YYMMDD) | X | DT 6/6 |
| Not Used | DTM03 | 337 | Time Time expressed in 24-hour clock time as follows: H HHMMSSD, or HHMMSSDD, where H = hours (0 59), S = integer seconds (00-59) and DD = decimal are expressed as follows: D = tenths (0-9) and DD = | (0-23), $M = m$ | inutes (00- imal seconds (00-99) |
| Not Used | DTM04 | 623 | Time Code Code identifying the time. In accordance with Intersor Organization standard 8601, time can be specified to in hours in relation to Universal Time Coordinate (Verestricted character, + and - are substituted by P and | Onational Stand by a + or - and UTC) time; si I M in the coo | ID 2/2 dards dan indication nce + is a des that follow |
| | DTM05 | 624 | Century The first two characters in the designation of the ye | or (CCYY) | N0 2/2 |
| Not Used | DTM06 | 1250 | Date Time Period Format Qualifier Code indicating the date format, time format, or date | X | ID 2/3 rmat |
| Not Used | DTM07 | 1251 | Date Time Period Expression of a date, a time, or range of dates, time | X | AN 1/35 |

Segment: HL Hierarchical Level

Position: 010

Loop: HL Mandatory

Level: Detail Usage: Mandatory

Max Use:

Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes: Semantic Notes:

Comments:

- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
- 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes:

- 1. For manifests the transaction set hierarchical data structure is a single shipment handler information loop, followed by one or more line item detail loops, followed by any certification loop(s) as needed.
- 2. The single shipment handler loop iteration identifies the shipping and receiving organizations, transporter(s), and other associated organizations along with point of contact (POC) data for each organization.

Each 2/HL/010 line item loop iteration provides identification, quantity and other detail for one manifest line item. At least one line item iteration must exist for each manifest.

Each certification 2/HL/010 loop iteration provides certification detail including organization identification, certifying individual and PIN, and communications numbers.

One or more certification loop iterations must be used to report transfer/receipt of the waste as part of the EPA UHWM to the generator and state environmental organizations. They are not necessary when the transaction set is being used only to convey manifest data between automated systems.

3. For Foreign Waste Shipment Summaries, the transaction set hierarchical data structure is a single shipment handler loop, followed by one or more line item detail loops.

The single shipment handler loop iteration identifies the generating organization within the foreign country and the U.S. receiving organization.

Each 2/HL/010 line item loop iteration provides identification, quantity and other detail for one line item. At least one line item iteration must exist for each Foreign

Waste Shipment Summary.

| Must Use | Ref. <u>Des.</u> HL01 | Data Element 628 | Name Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure In the first 2/HL/010 loop iteration cite only the numeric 1. In each subsequent loop iteration increase incrementally by 1. | | | | |
|-----------|-----------------------------|------------------------|---|--|---|--|--|
| | HL02 | 734 | Hierarchical Pa Identification nu segment being d | nrent ID Number mber of the next higher hierarchical dat escribed is subordinate to a the 2/HL/010 shipment handler loop. ber 1 in all 2/HL/010 line item loops as | · · · <u>.</u> | | |
| | | # 2# | TT'li-al I | wal Codo | M | ID 1/2 | |
| Must Use | HL03 | 735 | Hierarchical Le | e characteristic of a level in a hierarchic | | | |
| | | | I | Item | | | |
| | | | | Use to identify each line item of we characteristics and quantities. Us 2/HL/010 loop for each line item detail. | se a sepai | rate | |
| | | | S | Shipment Use the shipment handler to identify ship-to organizations and other in with the shipment as a whole. The loop is always the first iteration of and is to be used only once. It more or more subordinate line item loop(s) may follow the line item loneeded. | nformation of shipme of the 2/H nust be foo on loops. | on associated ent handler L/010 loop llowed by Certification | |
| | | | V | Address Information | | | |
| | | | The HL loop will identify entities associated with the shipment notice transaction Use in manifest to identify acceptance/transfer of the waste by an organization and an associated individu Use a separate certification loop for each certifying | | | | |
| ** . ** * | TTT 0.4 | 52 (| Hierarchical C | organization. hild Code | • 0 | ID 1/1 | |
| Not Used | HL04 | 736 | Code indicating level being desc | if there are hierarchical child data segn | _ | | |

LIN Item Identification Segment:

Position:

HLLoop: Mandatory

Level: Detail Usage: Optional Max Use: 1

Purpose: To specify basic item identification data

Syntax Notes:

- 1 If either LIN04 or LIN05 is present, then the other is required.
- If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required. 6
- If either LIN14 or LIN15 is present, then the other is required.
- If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required. 9
- If either LIN20 or LIN21 is present, then the other is required. 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

Semantic Notes: Comments:

1 LIN01 is the line item identification

1 See the Data Dictionary for a complete list of IDs.

LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes:

1. Must use this 2/LIN/020 segment in 2/HL/010 manifest line item loops, to identify the waste shipped.

2. Do not use in Foreign Waste Shipment Summary.

| Must Use | Ref. <u>Des.</u> LIN01 | Data Element 350 | Name Assigned Ident Alphanumeric c | haracters assigned for differentiation within a transaction set |
|----------|------------------------------|------------------------|--|---|
| Must Use | LIN02 | 235 | Use to identify the Product/Service | he manifest line number. e ID Qualifier M ID 2/2 |
| | | | Code identifying Product/Service Must use at least | g the type/source of the descriptive number used in ID (234) tone of the listed codes in LIN02-3. Use additional 235/234 to provide further identification. Locally Assigned Control Number |
| | | | CO | Item identifier is a locally assigned control number used to catalog and manage material Use to indicate a number or nomenclature assigned by the generator to identify the waste line item Chemical Abstract Service (CAS) Registry Number |
| | | | CO | Use to indicate the CAS identification number. |
| | | | IN | Buyer's Item Number |
| | | | | Must use in Defense Reutilization and Marketing Service (DRMS) shipments to indicate the Hazardous Identification Number (HIN). |

| Must Use | | | | TU Tested Material Identification Nu | | |
|--|-------------|--|-----|---|---------------|-------------|
| Must Use | | | | | le number. | |
| Lino4 235 | Must Use | LIN03 | 234 | | | |
| LIN04 255 Product/Service ID (234) | Must Osc | Liivoo | | Identifying number for a product or service | | |
| LIN05 234 Product/Service ID (234) X | | LIN04 | 235 | Product/Service ID Qualifier | | |
| LIN05 234 Product/Service ID Qualifier X ID 2/2 | | | | Code identifying the type/source of the descriptive num Product/Service ID (234) | | |
| LIN06 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) LIN07 234 Product/Service ID Qualifier X ID 2/2 Code identifying number for a product or service LIN08 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID Qualifier X ID 2/2 Not Used LIN12 235 Product/Service ID Qualifier X ID 2/2 Not Used LIN14 235 Product/Service ID Qualifier X ID 2/2 Not Used LIN15 234 Product/Service ID Qualifier X ID 2/2 Not Used LIN15 235 Product/Service ID Qualifier X ID 2/2 Not Used LIN16 235 Product/Service ID Qualifier X ID 2/2 Not Used LIN16 236 Product/Service ID Qualifier X ID 2/2 Not Used LIN17 234 Product/Service ID Qualifier X ID 2/2 Not Used LIN18 235 Product/Service ID Qualifier X ID 2/2 Code identifying number for a product or service Not Used LIN18 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID Qualifier X ID 2/2 Code identifying number for a product or service Not Used LIN18 235 Product/Service ID Qualifier X ID 2/2 Code identifying number for a product or service Not Used LIN20 236 Product/Service ID Qualifier X ID 2/2 Code identifying number for a product or service Not Used LIN21 234 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID Qualifier X ID 2/2 Code identifying the t | | LIN05 | 234 | | X | AN 1/40 |
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| Not Used LIN15 234 Product/Service ID (234) Not Used LIN16 235 Product/Service ID Qualifier X ID 2/2 Code identifying number for a product or service Not Used LIN17 234 Product/Service ID (234) Not Used LIN18 235 Product/Service ID Qualifier X ID 2/2 Not Used LIN18 235 Product/Service ID Qualifier X ID 2/2 Code identifying number for a product or service Not Used LIN19 234 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) Not Used LIN19 234 Product/Service ID X AN 1/40 Not Used LIN20 235 Product/Service ID Qualifier X ID 2/2 Code identifying number for a product or service Not Used LIN20 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) Not Used LIN21 234 Product/Service ID Qualifier X AN 1/40 Not Used LIN21 235 Product/Service ID Qualifier X AN 1/40 Not Used LIN22 235 Product/Service ID Qualifier X AN 1/40 Not Used LIN22 235 Product/Service ID Qualifier X AN 1/40 Not Used LIN22 235 Product/Service ID Qualifier X ID 2/2 Code identifying number for a product or service Not Used LIN22 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) | Not Used | LIN14 | 235 | Product/Service ID Qualifier | | |
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| Identifying number for a product or service Not Used LIN16 235 Product/Service ID Qualifier Qualifier Qualifier Qualifier Qualifier Product/Service ID (234) Qualifier Qualifi | Not Head | LIN15 | 234 | Product/Service ID | X | AN 1/40 |
| Not Used LIN16 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) Not Used LIN17 234 Product/Service ID X AN 1/40 Identifying number for a product or service Not Used LIN18 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) Not Used LIN19 234 Product/Service ID (234) Not Used LIN20 235 Product/Service ID Qualifier X AN 1/40 Identifying number for a product or service Not Used LIN20 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) Not Used LIN21 234 Product/Service ID (234) Not Used LIN22 235 Product/Service ID Qualifier X AN 1/40 Identifying number for a product or service Not Used LIN22 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID Qualifier X AN 1/40 | Not Oseu | LIMIS | 20. | Identifying number for a product or service | | |
| Code identifying the type/source of the descriptive number used in Product/Service ID (234) Not Used LIN17 234 Product/Service ID | Not Used | LIN16 | 235 | Product/Service ID Qualifier | | |
| Not Used LIN17 234 Product/Service ID Identifying number for a product or service Not Used LIN18 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) Not Used LIN19 234 Product/Service ID X AN 1/40 Identifying number for a product or service Not Used LIN20 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) Not Used LIN21 234 Product/Service ID X AN 1/40 Not Used LIN21 234 Product/Service ID Qualifier X ID 2/2 Code identifying number for a product or service Not Used LIN22 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) | 1101 0504 | | | Code identifying the type/source of the descriptive nu | mber used | ın |
| Not Used LIN18 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) Not Used LIN19 234 Product/Service ID (234) Not Used LIN20 235 Product/Service ID Qualifier X ID 2/2 Code identifying number for a product or service Not Used LIN20 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) Not Used LIN21 234 Product/Service ID X AN 1/40 Not Used LIN22 235 Product/Service ID Qualifier X ID 2/2 Code identifying number for a product or service Not Used LIN22 235 Product/Service ID Qualifier X ID 2/2 Code identifying number for a product or service Not Used LIN22 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) | | | | | x | AN 1/40 |
| Not Used LIN18 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) Not Used LIN19 234 Product/Service ID Identifying number for a product or service Not Used LIN20 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) Not Used LIN21 234 Product/Service ID Identifying number for a product or service Not Used LIN22 235 Product/Service ID Qualifier X AN 1/40 Identifying number for a product or service Not Used LIN22 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) | Not Used | LIN17 | 234 | | 2. | 111 (1, 10 |
| Code identifying the type/source of the descriptive number used in Product/Service ID (234) Not Used LIN19 234 Product/Service ID Identifying number for a product or service Not Used LIN20 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) Not Used LIN21 234 Product/Service ID Identifying number for a product or service Not Used LIN22 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) | | T TN/10 | 225 | • - | X | ID 2/2 |
| Not Used LIN19 234 Product/Service ID (234) Not Used LIN20 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) Not Used LIN21 234 Product/Service ID (234) Not Used LIN21 235 Product/Service ID X AN 1/40 Identifying number for a product or service Not Used LIN22 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) | Not Used | LINI8 | 233 | Code identifying the type/source of the descriptive nu | ımber used | in |
| Not Used LIN19 234 Product/Service ID Identifying number for a product or service Not Used LIN20 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) Not Used LIN21 234 Product/Service ID X AN 1/40 Identifying number for a product or service Not Used LIN22 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) | | | | Product/Service ID (234) | | |
| Not Used LIN20 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) Not Used LIN21 234 Product/Service ID Identifying number for a product or service Not Used LIN22 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) Y AN 1/40 | Not Used | LIN19 | 234 | Product/Service ID | X | AN 1/40 |
| Not Used LIN20 235 Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Not Used LIN21 234 Product/Service ID Identifying number for a product or service Not Used LIN22 235 Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) X AN 1/40 | | | | Identifying number for a product or service | *7 | ID 0/0 |
| Not Used LIN21 234 Product/Service ID (234) Not Used LIN21 234 Product/Service ID Identifying number for a product or service Not Used LIN22 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) X AN 1/40 | Not Used | LIN20 | 235 | Product/Service ID Qualifier | | |
| Not Used LIN21 234 Product/Service ID Identifying number for a product or service Not Used LIN22 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) | | | | Code identifying the type/source of the descriptive ht | illibel used | 111 |
| Not Used LIN22 235 Identifying number for a product or service Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) | NY / TT 1 | T TN101 | 224 | | X | AN 1/40 |
| Not Used LIN22 235 Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234) | Not Used | LINZI | 234 | Identifying number for a product or service | | |
| Code identifying the type/source of the descriptive number used in Product/Service ID (234) | Not Head | LIN22 | 235 | Product/Service ID Qualifier | | |
| Product/Service ID (234) | 1101 0364 | 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | Code identifying the type/source of the descriptive nu | ımber used | in |
| Not Used LIN23 234 Product/Service ID X AN 1/40 | 1 | | | Product/Service ID (234) | | |
| | Not Used | LIN23 | 234 | Product/Service ID | Λ | /ALT 1/40 |

| | | | Identifying number for a product or service | | |
|----------|-------|-----|--|---------------|------------------|
| Not Used | LIN24 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) | X per used | ID 2/2 in |
| Not Used | LIN25 | 234 | Product/Service ID Identifying number for a product or service | X | AN 1/40 |
| Not Used | LIN26 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) | X per used | ID 2/2 in |
| Not Used | LIN27 | 234 | Product/Service ID Identifying number for a product or service | X | AN 1/40 |
| Not Used | LIN28 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive numb Product/Service ID (234) | X per used | ID 2/2 in |
| Not Used | LIN29 | 234 | Product/Service ID Identifying number for a product or service | X | AN 1/40 |
| Not Used | LIN30 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive numb Product/Service ID (234) | X er used | ID 2/2 in |
| Not Used | LIN31 | 234 | Product/Service ID Identifying number for a product or service | X | AN 1/40 |

Segment: PID Product/Item Description

Position: 070

Loop: HL Mandatory

Level: Detail
Usage: Optional
Max Use: 200

Purpose: Syntax Notes:

To describe a product or process in coded or free-form format

1 If PID04 is present, then PID03 is required.

- At least one of PID04 or PID05 is required.
 If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID03 is required.

Semantic Notes:

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

Comments:

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

Notes:

- 1. Must use 2 occurrences of this 2/PID/070 segment in 2/HL/010 manifest line item loops. Use the first occurrence to identify whether the item is hazardous or non hazardous and the handling code. Use the second occurrence to indicate the physical state.
- 2. Also use additional iterations as needed in line item loops to indicate state waste codes.
- 3. Must use this PID segment in Foreign Waste Shipment Summary line item loops to identify Handling Codes (i.e., System Type Code or Treatment Codes) and State Waste Codes.

Code identifying the general class of a product or process characteristic

| | | | Data E | dement Summary | |
|----------|------------------------------|------------------------|-------------------------------------|--|------------------------|
| Must Use | Ref. <u>Des.</u> PID01 | Data Element 349 | Name Item Descripti Code indicating | ion Type g the format of a description | Attributes M ID 1/1 |
| | | | F | Free-form | |
| | | | | Use as needed to provide addition information not available from co conjunction with PID02 codes PF PID05. | de sources. Use in |
| | | | S | Structured (From Industry Code Li | st) |
| | | | - | Must use to indicate handling cod code lists. Use in conjunction with and PID04. | les from industry |
| Must Use | PID02 | 750 | Product/Proce | ess Characteristic Code | O ID 2/3 |

Must use only one of codes HZ or NH.

| | | | The second of th | |
|----------|-------|------|--|--|
| | | | HZ | Hazardous Material |
| | | | | Use with PID04 to indicate the handling code |
| | | | | (treatment code). |
| | | | NH | Non-Hazardous Material |
| | | | - 1-2 | Use with PID04 to indicate the handling code. |
| | | | | |
| | | | PFA | Physical Form |
| | | | | Use to indicate the physical state (liquid, solid, gas, sludge) in PID05. |
| | | | | |
| | | | STL | State Controlled |
| | | | | 1. Use to indicate the applicable state waste codes(s). Use in conjunction with PID01 code F. Cite the U.S. Postal Service abbreviation for the applicable state |
| | | | | followed by a dash and then the specific waste code, in |
| | | | | PID05. |
| | | | | 2. Use in Foreign Waste Summary Reports. |
| Must Use | PID03 | 559 | Agency Qualification Code identifying | |
| | | | DO | United States Department of Transportation (DOT) |
| | | | EP | United States Environmental Protection Agency (EPA) |
| | | | | |
| | PID04 | 751 | Product Descri | ption Code X AN 1/12 |
| | | | A code from an characteristic | industry code list which provides specific data about a product |
| | PID05 | 352 | Description | X AN 1/80 |
| | | | A free-form des | cription to clarify the related data elements and their content |
| | | | | |
| Not Used | PID06 | 752 | Surface/Layer/ Code indicating | Position Code O ID 2/2 the product surface, layer or position that is being described |
| Not Used | PID07 | 822 | Source Subqua | lifier O AN 1/15 |
| | DYDAG | 1053 | | indicates the table or text maintained by the Source Qualifier |
| | PID08 | 1073 | | on or Response Code O ID 1/1 |
| | | | | a Yes or No condition or response |
| | | | Use only in conj N | function with PID02 code HZ. No |
| | | | | Use to indicate the line item is non-Resource |
| | | | Y | Conservation and Recovery Act (RCRA). Yes |
| | | | | Use to indicate that the line item is RCRA. |
| Not Used | PID09 | 819 | Language Code | |
| | | | Code designating maintained by the | g the language used in text, from a standard code list te International Standards Organization (ISO 639) |
| | | | | |

MEA Measurements Segment:

Position:

HLMandatory Loop:

Level: Detail Optional Usage: Max Use: 40

To specify physical measurements or counts, including dimensions, tolerances, variances, Purpose:

and weights (See Figures Appendix for example of use of C001)

At least one of MEA03 MEA05 MEA06 or MEA08 is required. **Syntax Notes:**

2 If MEA05 is present, then MEA04 is required. If MEA06 is present, then MEA04 is required. 3

If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required. 4

Only one of MEA08 or MEA03 may be present. 5

Semantic Notes: Comments:

MEA04 defines the unit of measure for MEA03, MEA05, and MEA06. 1

When citing dimensional tolerances, any measurement requiring a sign (+ or -), or 1 any measurement where a positive (+) value cannot be assumed, use MEA05 as the

negative (-) value and MEA06 as the positive (+) value.

Use this 2/MEA/080 segment in 2/HL/010 manifest line item loops to identify optional Notes:

test results.

Data Element Summary

| | | | Data Elei | nene Sammar y | | | |
|----------------|-------|--------------------|--|--|--------------|--|--|
| | Ref. | Data | | | A 44. | | |
| | Des. | <u>Element</u> | <u>Name</u> | | - | ributes | |
| | MEA01 | 737 | Measurement Re | | O | ID 2/2 | |
| | | Code identifying t | he broad category to which a measureme | nt app | olies | | |
| | | | BT | Batch Limits | | | |
| | | | | Limits set on test results from all produnit or period of production | luct m | ade for one | |
| | | | | Use to indicate that it is estimated we a TSDF Notification that is reported | | | |
| | | | TR | Test Results | | | |
| | | | | Indicates that the data to follow are the measurements | e resu | lts test | |
| Must Use MEA02 | | EA02 738 | Measurement Qu | | O | ID 1/3 | |
| | | | | a specific product or process characteristic | ic to w | hich a | |
| | | | measurement appl | | | | |
| | | 1 F | Radio Frequency | cy | | | |
| | | | A1 | Acids | | | |
| | | | | A value, normally shown as a percent showing the content of all acidic structure. | | | |
| | | | | a solution of a known product | | | |
| | | | | Use to indicate a value, normally sho | own as | a percent | |
| | | | | of the total, showing the content of a | ll acia | lic | |
| | | | | structures contained in a solution of | a kno | wn product. | |
| | | | BUD | Bulk Density | | | |
| | | | GR | Gravity | | de l'experience | |
| | | | | Use to indicate specific gravity | | | |
| | | | PSA | Percent Solution Actual | | | |
| | | | | Use to indicate percentage. | · . | The state of the s | |
| | | | VAD | Vapor Density | | | |
| Must Use | MEA03 | 739 | Measurement Va | llue | X | R 1/20 | |

The value of the measurement

| Must Use | MEA04 | C001 | Composite Unit of Measure | X | | |
|-----------|--------|------|---|-------------|-----|-------------------|
| | | | To identify a composite unit of measure (See Figures App of use) | endix | for | examples |
| Must Use | C00101 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being express which a measurement has been taken Use any code other than ZZ, but the following are prefer. | | | D 2/2 anner in |
| | | | ose my cone oner man 22, our me jonowing are prejen | eu. | | |
| | | | 26 Actual Tons CC Cubic Centimeter | | | |
| | | | CR Cubic Meter | | | |
| | | | CY Cubic Yard FP Pounds Per Sq. Ft. | , A. | | |
| | | | GA Gallon | | | |
| | | | KG Kilogram | | | |
| | | | KS 1000 Per Square Inch | | | |
| | | | LA Pounds Per Cubic Inch LT Liter | | | |
| | | | N6 Megahertz | | • | |
| | | | P1 Percent | | | |
| | | | PS Pounds per Sq. Inch | | | |
| | | | | | _ | |
| Not Used | C00102 | 1010 | Refer to 003060 Data Element Dictionary for acceptable co | | | |
| Not Osea | C00102 | 1018 | Exponent Power to which a unit is raised | О | R | 1/15 |
| Not Used | C00103 | 649 | Multiplier | o | R | 1/10 |
| Not Used | C00104 | 355 | Value to be used as a multiplier to obtain a new value Unit or Basis for Measurement Code | _ | rr | 20 |
| Not Oseu | C00104 | 333 | Code specifying the units in which a value is being express which a measurement has been taken | O ed, or | | nner in |
| Not Used | C00105 | 1018 | Exponent Power to which a unit is raised | o | R | 1/15 |
| Not Used | C00106 | 649 | Multiplier | O | R | 1/10 |
| | | | Value to be used as a multiplier to obtain a new value | | | |
| Not Used | C00107 | 355 | Unit or Basis for Measurement Code | 0 | | 2/2 |
| | | | Code specifying the units in which a value is being express which a measurement has been taken | ed, or | mai | nner in |
| Not Used | C00108 | 1018 | Exponent | o | R | 1/15 |
| | | | Power to which a unit is raised | Ü | | 1/10 |
| Not Used | C00109 | 649 | Multiplier | O | R | 1/10 |
| N7 / N7 N | ~~~ | | Value to be used as a multiplier to obtain a new value | | | |
| Not Used | C00110 | 355 | Unit or Basis for Measurement Code | 0 | | 2/2 |
| | | | Code specifying the units in which a value is being express which a measurement has been taken | ea, or | mai | nner in |
| Not Used | C00111 | 1018 | Exponent | o | R | 1/15 |
| | | | Power to which a unit is raised | | | |
| Not Used | C00112 | 649 | Multiplier Value to be used as a multiplier to obtain a new value | O | R | 1/10 |
| Not Used | C00113 | 355 | Unit or Basis for Measurement Code | O | ID | 2/2 |
| | | | Code specifying the units in which a value is being expresse | | | |
| Not Hand | C00114 | 1010 | which a measurement has been taken | _ | _ | |
| Not Used | C00114 | 1018 | Exponent Power to which a unit is raised | 0 | R | 1/15 |
| Not Used | C00115 | 649 | Multiplier | 0 | R | 1/10 |
| • | | | Value to be used as a multiplier to obtain a new value | • | | 1/10 |

| Not Used | MEA05 | 740 | Range Minimum The value specifying the minimum of the measurement range | X ge | R | 1/20 |
|----------|-------|------|---|----------------|----|-------------------|
| Not Used | MEA06 | 741 | Range Maximum The value specifying the maximum of the measurement range. | X ge | R | 1/20 |
| Not Used | MEA07 | 935 | Measurement Significance Code Code used to benchmark, qualify or further define a measure | O emen | | 2/2 lue |
| Not Used | MEA08 | 936 | Measurement Attribute Code Code used to express an attribute response when a numeric cannot be determined | X measi | | 2/2 nent value |
| Not Used | MEA09 | 752 | Surface/Layer/Position Code Code indicating the product surface, layer or position that is | O bein | | 2/2 escribed |
| Not Used | MEA10 | 1373 | Measurement Method or Device The method or device used to record the measurement | O | ID | 2/4 |

TD1 Carrier Details (Quantity and Weight) Segment:

Position:

Loop: HLMandatory

Level:

Detail Optional

Usage: Max Use:

20

Purpose: **Syntax Notes:** To specify the transportation details relative to commodity, weight, and quantity

- If TD101 is present, then TD102 is required.
- If TD103 is present, then TD104 is required.
- 3 If TD106 is present, then TD107 is required.
- If either TD107 or TD108 is present, then the other is required. If either TD109 or TD110 is present, then the other is required.

Semantic Notes:

Comments: Notes:

1. Use this 2/TD1/110 segment in 2/HL/010 manifest line item loops to identify container types and quantities and total weight/volume of the line item.

- 2. Use this segment for both hazardous and non-hazardous commodities. For hazardous commodities repeat the count of the number of containers in 2/LH1/152.
- 3. Use in Foreign Waste Shipment Summary to identify the quantity by weight or volume.
- 4. The shipment quantity must be expressed either in weight (use TD106-8) or volume (use TD109-10) but not both.

Data Element Summary

| | Ref. | Data | , | |
|----------|-------|----------------|---|-----------------|
| | Des. | Element | <u>Name</u> | Attributes |
| Must Use | TD101 | 103 | Packaging Code | O AN 3/5 |
| | | | Code identifying the type of packaging; Part 1: Packaging | g Form, Part 2: |
| | | | Packaging Material | , |
| • | | | 1. Must use in manifests to identify the types of contained | ers. |

2. Typically use a code from part 1 to identify the type of container with a code from part 2 to identify the material (e.g., DRM58 would be a metal drum). However, part 1 codes BRG, TKR, TKT, TNK, and VEH do not use a part 2 code. See the Shipment Container Conversion Table for more information regarding converting X12 codes to UHWM container types.

| BAG | Bag |
|-----|----------------------------------|
| BOX | Box |
| BRG | Barge |
| CYL | Cylinder |
| DRM | Drum |
| TKR | Tank Car |
| TKT | Tank Truck |
| TNK | Tank |
| | Use to indicate a portable tank. |
| VEH | Vehicles |
| | Use to indicate a dump truck. |

| | | | 07 | Burlap | | |
|----------|-------|-----|----------------------------|--|------------|--|
| | | | 13 | Cloth | | |
| | | | 31 | Fibre | | |
| | | | 37 | Fiberboard | | |
| | | | 58 | Metal | | |
| | | | 79 | Plastic | | |
| | | | 94 | Wood | | |
| | TD102 | 80 | Lading Quant | ity | X | N0 1/7 |
| | | | | s (pieces) of the lading commodity | | Sec. 1. 509 |
| | | | Must use in mo | mifests to identify the number of contain | er(s). | |
| Not Used | TD103 | 23 | Commodity Code identifying | ode Qualifier ng the commodity coding system used for | O Commo | |
| Not Used | TD104 | 22 | Commodity C | ode | X | AN 1/30 |
| | | | Code describin | g a commodity or group of commodities | _ | |
| Not Used | TD105 | 79 | Lading Descri | ption | . 0 | AN 1/50 |
| | | | | an item as required for rating and billing p | | |
| | TD106 | 187 | Weight Qualif | | O | ID 1/2 |
| | | | Code defining | the type of weight | | |
| | | | Α | Consolidated Weight | | |
| | | | DR | Drained Weight | | |
| | | | N | Actual Net Weight | | - 440 |
| | TD107 | 81 | Weight | | X | R 1/10 |
| | | | Numeric value | The state of the s | | The second section of the second |
| | | | Use to identify | the total quantity in weight of the line it | em. | |
| | TD108 | 355 | | for Measurement Code | X | ID 2/2 |
| | | | which a measu | g the units in which a value is being exprorement has been taken the unit measure of weight. | essed, o | r manner in |
| | | | | | | |
| | | | 26 | Actual Tons | | |
| | | | KG | Kilogram | | |
| | | | LB | Pound | | |
| | | | MP | Metric Ton | | |
| | TD109 | 183 | Volume | | X | R 1/8 |
| | | | Value of volun | netric measure | | |
| | | | Use to identify | the total quantity of volume for the line | item. | |
| | TD110 | 355 | | for Measurement Code | X | ID 2/2 |
| | 1211 | | which a measu | ng the units in which a value is being expr rrement has been taken | essed, o | r manner in |
| | | | Use to identify | the unit of measure for volume. | | |
| | | | | The second secon | | F1.478 |
| | | | CO | Cubic Meters (Net) | | , starte to |
| | | | CO CY | Cubic Meters (Net) Cubic Yard | | , starte e e |
| | | | | • | | i estado en entre en |

Segment: TD4 Carrier Details (Special Handling, or Hazardous Materials, or Both)

Position: 140

Loop: HL Mandatory

Level: Detail Usage: Optional

Max Use: 5

Purpose: To specify transportation special handling requirements, or hazardous materials

information, or both

Syntax Notes: 1 At least one of TD401 TD402 or TD404 is required.

2 If TD402 is present, then TD403 is required.

Semantic Notes: 1 TD405 identifies if a Material Safety Data Sheet (MSDS) exists for this product. A

"Y" indicates an MSDS exists for this product; an "N" indicates an MSDS does not

exist for this product.

Comments:

Notes: 1. Use this 2/TD4/140 segment in 2/HL/010 manifest line item loops to identify that

the line item is carried in a labpack.

2. Also use it in the 2/HL/010 shipment handler loop to identify split pickups and/or deliveries.

| | Ref. | Data | | | | |
|----------|-------|----------------|--|--|-------------------------|---------|
| | Des. | Element | <u>Name</u> | | Att | ributes |
| Must Use | TD401 | 152 | Special Handling | Code | $\overline{\mathbf{X}}$ | ID 2/3 |
| | | | Code specifying sp | pecial transportation handling instructions | S | |
| | | | SCC | Special Containers | | |
| | | | | The additional service charge or order transportation carrier to use specially containers for oversized or fragile item household goods shipment <i>Use to indicate a labpack.</i> | onstr | ructed |
| | | | SDL | Split Delivery | | |
| | | | SF | Use only in the 2/HL/010 shipment he indicate that the waste is to be deliver one TSDF. Split Pickup | | |
| | | | | Use only in the 2/HL/010 shipment he indicate that the waste was received fine one location. | | |
| Not Used | TD402 | 208 | Hazardous Mater. Code which qualifi | ial Code Qualifier es the Hazardous Material Class Code (2 | X 09) | ID 1/1 |
| Not Used | TD403 | 209 | Hazardous Mater | | x | AN 1/4 |
| Not Used | TD404 | 352 | Description | otion to clarify the related data elements a | X and th | AN 1/80 |
| Not Used | TD405 | 1073 | Yes/No Condition | or Response Code Yes or No condition or response | О | ID 1/1 |

REF Reference Identification Segment:

Position:

HLMandatory Loop:

Detail Level: Usage: Optional >1 Max Use:

To specify identifying information Purpose:

At least one of REF02 or REF03 is required. **Syntax Notes:** 1

If either C04003 or C04004 is present, then the other is required. If either C04005 or C04006 is present, then the other is required. 3

Semantic Notes:

REF04 contains data relating to the value cited in REF02. 1

Comments: Notes:

1. Use this 2/REF/150 segment in the 2/HL/010 shipment handler loop to identify the state manifest number.

- 2. Also Use this segment in DRMS shipments, in 2/HL/010 line item loops to identify the unique defense turn-in document (DTID) number when there is only a single DTID associated with the manifest line item AND the DTID quantity equals the line item quantity. When there are multiple DTIDs associated with a single manifest line item and/or the DTID quantity(s) are less than the line item quantity, use the 2/CLD/170 loop to identify the DTID(s) and the associated quantity.
- 3. Use in Foreign Waste Shipment Summary line item loops to identify the EPA manifest number associated with the waste line items.

Data Element Summary

| | | | Duti 21 | J | | |
|----------------------------|-------|------------------------|-----------------|---|--------------------|---------------------|
| Ref. Des. Must Use REF01 | | Data Element 128 | | tification Qualifier the Reference Identification | <u>Attr</u> M | ibutes ID 2/3 |
| | | | MA | Ship Notice/Manifest Number | | |
| | | | MA I | Use, if applicable, to indicate the state number. Use in both Manifest and Foundary 2/HL/010 line item loops | e man oreign | ifest 1 Waste |
| | | | MK | Manifest Key Number | | |
| | | | W1 | Must use only in Foreign Waste Ships to indicate the EPA generator/manife applicable to the waste line item. Defense Turn-In Document Number | | |
| | | | | Identifies material submitted for reutilimarketing Use in DRMS shipments to indicate to | | |
| Must Use | REF02 | 127 | | tification nation as defined for a particular Transactic Reference Identification Qualifier | X on Set | AN 1/30 or as |
| Not Used | REF03 | 352 | Description | cription to clarify the related data elements | X and th | AN 1/80 eir content |
| Not Used | REF04 | C040 | Reference Iden | | O | |
| | | | To identify one | or more reference numbers or identification | numb | ers as |

21

| Not Used | C04001 | 128 | specified by the Reference Qualifier Reference Identification Qualifier Code qualifying the Reference Identification | M | ID 2/3 |
|----------|--------|-----|---|---------------|------------------------|
| Not Used | C04002 | 127 | Reference Identification Reference information as defined for a particular Transact specified by the Reference Identification Qualifier | M tion Set | AN 1/30 t or as |
| Not Used | C04003 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification | X | ID 2/3 |
| Not Used | C04004 | 127 | Reference Identification Reference information as defined for a particular Transact specified by the Reference Identification Qualifier | X ion Set | AN 1/30 tor as |
| Not Used | C04005 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification | X | ID 2/3 |
| Not Used | C04006 | 127 | Reference Identification Reference information as defined for a particular Transact specified by the Reference Identification Qualifier | X ion Set | AN 1/30 tor as |

LH1 Hazardous Identification Information Segment:

Position:

LH1 Optional Loop:

Level: Detail Optional Usage:

Max Use:

To specify the hazardous commodity identification reference number and quantity Purpose:

Syntax Notes: Semantic Notes: Comments:

LH101 and LH102 are used to convey the number and type of packages for bulk and nonbulk movements. LH106 and LH107 are used to convey the quantity or volume and unit of measure

for nonbulk shipments only.

In LH109, a value of "R" requires that the receiver generate the words "residue: last contained" prior to the shipping name in accordance with regulations and the words "- residue" following all placards associated with this description.

Notes:

Use this 2/LH1/152 loop in 2/HL/010 manifest line item loops to identify number of containers, hazardous codes and packaging groups. The repeat of the number of containers in 2/TD1/110 is used to meet X12 syntax requirements for entry into this LH1 loop.

| | | | Data Element Summary | | |
|----------|------------------------------|------------------------|---|---------------------|--------------------------------|
| Must Use | Ref. <u>Des.</u> LH101 | Data Element 355 | Name Unit or Basis for Measurement Code Code specifying the units in which a value is being exwhich a measurement has been taken EA Each Use to indicate the number of of material. | M xpressed, or i | |
| Must Use | LH102 | 80 | Lading Quantity Number of units (pieces) of the lading commodity | M | N0 1/7 |
| | LH103 | 277 | UN/NA Identification Code Code identifying the hazardous material identificatio Title 49 of the code of Federal Regulations; UN/NA Nations/North America Use to identify UN hazardous identification number | stands for U | ID 6/6 required by nited |
| Not Used | LH104 | 200 | Hazardous Materials Page The United Nations page number as required for the hazardous materials | | |
| Not Used | LH105 | 22 | Commodity Code Code describing a commodity or group of commodit | O | AN 1/30 |
| Not Used | LH106 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being e which a measurement has been taken | | |
| Not Used | LH107 | 380 | Quantity Numeric value of quantity | 0 | R 1/15 |
| Not Used | LH108 | 595 | Compartment ID Code Code identifying the compartment in a compartment | O talized tank o | ID 1/1 car |
| Not Used | LH109 | 665 | Residue Indicator Code Code indicating that the shipment is not a loaded mo | О | ID 1/1 |

| | LH110 | 254 | residue from a prior movement Packing Group Code Code indicating degree of danger in terms of Roman numbers. | O ber I, I | ID 1/3 I or III |
|----------|-------|------|--|----------------------|---------------------------|
| Not Used | LH111 | 1375 | Use to identify packaging group. Interim Hazardous Material Regulatory Number Identifies the current regulatory version number used for hishipments | 0 | AN 1/5 |

LH2 Hazardous Classification Information Segment:

Position:

LH1 Optional Loop:

Level: Detail Optional Usage:

Max Use:

Notes:

To specify the hazardous classification, placard notation, and endorsement information

Purpose: If either LH206 or LH207 is present, then the other is required. **Syntax Notes:** LH206 and LH207 indicate the flashpoint temperature.

Semantic Notes:

Comments:

1. Use this 2/LH2/153 segment in 2/HL/010 in manifest line item loops to identify hazardous classification, reportable quantity codes and flash point temperatures.

| | Ref. Des. | Data <u>Element</u> | <u>Name</u> | | Att | ributes ID 1/30 |
|----------|--------------|------------------------|--|--|---|--------------------|
| LH201 | | 215 | Hazardous Class | | • | |
| | | | The hazardous cla | assification corresponding to the shipping | z manne | Of the |
| | | | nazardous commit | outy | * | |
| | | | en de la companya de La companya de la co | "我说话,我们是我们的人们的。" | | |
| | LH202 | 983 | Hazardous Class | | О | ID 1/1 |
| | | | Code qualifying l | nazardous class | | |
| | | | P | Primary | | |
| | | | S | Secondary | | |
| Not Used | LH203 | 218 | Hazardous Place | ard Notation | 0 | ID 14/40 |
| 1,00 000 | | | The placard notate commodity | cion corresponding to the hazard class of | | |
| Not Used | LH204 | 222 | Hazardous Ende | orsement | О | ID 4/25 |
| | | | | rsement that is to be shown on the shippi | ng pap | ers for the |
| | T TTO 0.5 | 750 | hazardous comm Reportable Qua | | o | ID 2/2 |
| | LH205 759 | | | presence of hazardous substance | | |
| | | | RQ | Reportable Quantity | | |
| | | 255 | • | r Measurement Code | X | ID 2/2 |
| | LH206 | 355 | | the units in which a value is being expres | sed. or | manner in |
| | | | which a measure | ment has been taken | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| | | | CE | Centigrade, Celsius | | |
| | | | FA | Fahrenheit | | |
| | LH207 | 408 | Temperature | | X | R 1/4 |
| | ZIIZ07 | ••• | Temperature | | | |
| | | | 1 | | | |

Segment: LH3 Hazardous Material Shipping Name

Position: 154

Loop: LH1 Optional

Level: Detail
Usage: Optional
Max Use: 12

Purpose: To

To specify the hazardous material shipping name and additional descriptive requirements

1 If either LH301 or LH302 is present, then the other is required.

Syntax Notes: Semantic Notes:

mantic Notes: Comments:

Notes:

Must use this 2/LH3/154 segment in 2/HL/010 manifest line item loops to indicate the

proper shipping name of the line item.

| | Ref. | Data | | | |
|----------|-------|----------------|--|-------------------------|-----------------------|
| | Des. | Element | <u>Name</u> | Att | ributes |
| | LH301 | 224 | Hazardous Material Shipping Name | $\overline{\mathbf{X}}$ | AN 1/25 |
| | | | The proper shipping name of the hazardous commodity Code of Federal Regulations, Title 49 | as specif | ied by the |
| | | | Must use to identify the proper shipping name. | | |
| | LH302 | 984 | Hazardous Material Shipping Name Qualifier | X | ID 1/1 |
| | | | Qualifier indicating the source (regulatory) of the proper | r shipping | g name |
| | | | D Domestic (United States) Shipping | Name | |
| | | • | I International Shipping Name | | |
| Not Used | LH303 | 985 | N.O.S. Indicator Code Code indicating the type of regulatory requirements that N.O.S. stands for Not Otherwise Specified | O apply to | ID 3/3 a description; |

LFH Freeform Hazardous Material Information Segment:

Position:

Loop: LH1 Optional

Detail Level: Optional Usage: 20 Max Use:

To uniquely identify the variable information required by government regulation Purpose:

covering the transportation of hazardous material shipments

Syntax Notes:

Semantic Notes:

Comments:

Notes:

Use this 2/LFH/155 segment in 2/HL/010 manifest line item loops to provide additional hazardous material information not provided in other segments.

| Data Element Summary | | | | | |
|----------------------|------------------------------|------------------------|----------------------------------|--|------------------|
| Must Use | Ref. <u>Des.</u> LFH01 | Data Element 808 | <u>Name</u> Hazardous Materia | | D 3/3 |
| | | | Qualifier indicating | the type of information being passed so that a re of hazardous commodity movements that meet | s regulatory |
| | | | requirements | | |
| | | | ADI | Additional Descriptive Information Not Requi Regulation but Desired to Accompany the Mo by the Shipper | red by vement |
| | | | D13 | "DOT - 113, Do Not Bump or Cut Off Car Wi Motion" Declaration | nile in |
| | | | DWW | "Dangerous When Wet" Declaration | |
| | | | НОТ | Identifies Products in a Heated Molten State | |
| | | | HZC | Hazardous Substance Constituents | |
| | | | INH | Inhalation Hazard | |
| | | | LQY | "Limited Quantity" Declaration Maximum Operating Speed | |
| | | | MOS PIH | "Poison - Inhalation Hazard" Declaration | |
| | | | РІП | When used, must indicate the Hazard Zone (| Class in |
| | | | | LFH04. | |
| | | | POI | "Poison" Declaration | |
| | | | RAM | Radioactive Material Data | |
| | | | TEC | Technical or Chemical Group Name | |
| | | | TNM | Trade Name | |
| Must Use | LFH02 | 809 | Specific information | n required by law for hazardous material shipme | AN 1/25 ents |
| | LFH03 | 809 | Hazardous Materi | at Shipment Intol macton | AN 1/25 |
| | | | | n required by law for hazardous material shipme | ents |
| | LFH04 | 1023 | Hazard Zone Code | - | ID 1/1 |
| | | | the Inhalation Toxic | e Department of Transportation assigned zone d city Hazard Zone | esignating . |
| | | | | action with LFH01 code PIH. | |
| | | | A | Hazard Zone A | |
| | | | В | Hazard Zone B Hazard Zone C | |
| | | | С | Hazard Zone C Hazard Zone D | |
| | | | D | Mazaru Zone D | |

Segment: LEP EPA Required Data

Position: 156

Loop: LH1 Optional

Level: Detail Usage: Optional

Max Use: 3

Purpose: To specify the Environmental Protection Agency (EPA) information relating to

shipments of hazardous material

Syntax Notes:

Semantic Notes:

Comments:

Notes: Must use this 2/LEP/156 segment in 2/HL/010 in manifest and Foreign Waste

Shipment Summary line item loops to identify the federal waste code.

| | Ref. <u>Des.</u> LEP01 | Data <u>Element</u> 806 | Name EPA Waste Stream Number Code | Att) | ributes ID 4/4 |
|----------|------------------------------|-------------------------------|--|------|-------------------|
| | | | Waste stream number applicable to the movement of hazard determined by government regulations Use to identify the Waste No. | | |
| Not Used | LEP02 | 807 | Waste Characteristics Code Waste characteristics as defined by regulatory requirements | O | ID 14/16 |

Segment: CLD Load Detail

Position: 170

Loop: CLD Optional

Level: Detail
Usage: Optional

Max Use:

To specify the number of material loads shipped

Purpose: Syntax Notes: Semantic Notes:

1 CLD05 is used to dimension the value given in CLD04.

Comments: 1 The CLD data segment may be used to provide information to aid in the preparation of move tags and/or bar coded labels.

Notes: 1. Use this 2/CLD/170 loop in DRMS shipments in 2/HL/010 line item loops to identify multiple DTIDs and their associated quantities when more then one DTID is included within a single manifest line item.

2. Also must use this loop to identify a DTID and its associated quantity when that quantity is less than the total line item quantity.

For example, if a tank car containing a 1,000 gallons of waste moved from an interim to a final TSDF but only 300 gallons of that waste is being disposed for the transaction set recipient, then map as follows: use the 2/TD1/110 to report the 1,000 gallons and use this 2/CLD/170 loop to identify the 300 gallons and the DTID.

If all 1,000 gallons was processed for the recipient use the 2/TD1/110 to report the quantity and the 2/REF/150 to identify the single DTID, and do not use this CLD loop.

| | | | Data Elem | int Summary | | |
|-----------|---------------|-----------------|--|----------------------------------|----------------------|-------------|
| | Ref. | Data Element | Name | | <u>A1</u> | tributes |
| March Has | Des. CLD01 | 622 | Number of Loads | | M | N0 1/5 |
| Must Use | CLD01 | 022 | Number of custome | r-defined loads shipped | by the supplier | |
| | | | Cite 0 to meet X12 the receiving applications. | syntax requirements. I ation. | his data will not be | |
| Must Use | CLD02 | 382 | Number of Units S | hipped | M | |
| | | | or transaction set | nits shipped in manufac | | |
| | | | | number of containers a | SSOCIALEA WITH THE L | AN 3/5 |
| Not Used | CLD03 | 103 | Packaging Code | Curalizaciones De | • | |
| | | | | e type of packaging; Pa | it I. Packaging Poin | n, 1 ait 2. |
| | | | Packaging Material | | O | R 1/8 |
| Must Use | CLD04 | 357 | Size | to in nock | O | 10 1/0 |
| | | | Size of supplier uni | | J A. A. A. D.TID | 1 1 mg - 12 |
| | | | | weight/volume associat | | TD 0/0 |
| Must Use | CLD05 | 355 | Unit or Basis for N | 1easurement Code | 0 | |
| | | | Code specifying the | units in which a value | is being expressed, | of manner m |
| | | | which a measureme | | | |
| | | | 26 | Actual Tons | | |
| | | | CO | Cubic Meters (Net) | | |
| | | | CY | Cubic Yard | | |
| | | | GA | Gallon | | |
| | | | KG | Kilogram | | |
| | | | LB | Pound | | |
| | | | LT | Liter | | |
| | | | MP | Metric Ton | | |
| | | | | | | |

Segment: REF Reference Identification

Position: 180

Loop: CLD Optional

Level: Detail
Usage: Optional

Max Use: 200

Purpose: To specify identifying information

Syntax Notes: 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

1 REF04 contains data relating to the value cited in REF02.

Comments: Notes:

Must use one and only one repetition with each iteration of the 2/CLD/170 segment.

| | Ref. | Data | Data Element Summary | | |
|----------|----------------------|---------|--|--------|--------------|
| | Des. | Element | Name | | |
| Must Use | <u>Des.</u> REF01 | 128 | | | ributes |
| Must Osc | KETUI | 120 | Reference Identification Qualifier Code qualifying the Reference Identification | M | ID 2/3 |
| | | | W1 Defense Turn-In Document Number | | |
| | | | Betonse Turn in Bocument Number | | |
| | | | Identifies material submitted for reutil marketing | izatio | n and |
| Must Use | REF02 | 127 | Reference Identification | X | AN 1/30 |
| | | | Reference information as defined for a particular Transactic specified by the Reference Identification Qualifier | n Set | or as |
| Not Used | REF03 | 352 | Description | X | AN 1/80 |
| | | | A free-form description to clarify the related data elements a | and tl | neir content |
| Not Used | REF04 | C040 | Reference Identifier | O | |
| | | | To identify one or more reference numbers or identification specified by the Reference Qualifier | num | bers as |
| Not Used | C04001 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification | M | ID 2/3 |
| Not Used | C04002 | 127 | Reference Identification | M | AN 1/30 |
| | | | Reference information as defined for a particular Transactio specified by the Reference Identification Qualifier | | |
| Not Used | C04003 | 128 | Reference Identification Qualifier | X | ID 2/3 |
| | | | Code qualifying the Reference Identification | | |
| Not Used | C04004 | 127 | Reference Identification | X | AN 1/30 |
| | | | Reference information as defined for a particular Transaction | n Set | or as |
| | | | specified by the Reference Identification Qualifier | | |
| Not Used | C04005 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification | X | ID 2/3 |
| Not Used | C04006 | 127 | Reference Identification | ** | |
| 0504 | 204000 | 14/ | Reference information as defined for a particular Transaction | X | AN 1/30 |
| | | | specified by the Reference Identification Qualifier | 1 Set | or as |

Segment: DTM Date/Time Reference

Position: 200

Loop: HL Mandatory

Level: Detail
Usage: Optional
Max Use: 10

Purpose: To specify pertinent dates and times

Syntax Notes: 1 At least one of DTM02 DTM03 or DTM06 is required.

2 If either DTM06 or DTM07 is present, then the other is required.

Semantic Notes: Comments:

Notes:

1. Must use one occurrence of this 2/DTM/200 segment in the 2/HL/010 shipment handler loop to identify the estimated or actual shipment/manifest date.

2. Also must use one occurrence of this segment in each 2/HL/010 certification loop to specify the date of certification/receipt by the generator, transporter(s), and TSDF(s).

| | | · | Data Eleme | Summer j | | |
|------------|------------------------------|-------------------------|---|---|--------------------------------|---|
| Daniel II. | Ref. <u>Des.</u> DTM01 | Data <u>Element</u> 374 | <u>Name</u> Date/Time Qualifie | r | Attı M | ributes ID 3/3 |
| Must Use | DIMINI | 3/4 | Code specifying type | e of date or time, or both date and time | | |
| | | | 011 | Shipped | | |
| | | | 011 | Use to indicate the date the waste left to (BSN06 is code NQ) or when the wast TSDF site (BSN06 is code TS). | the g e left | enerator t the interim |
| • | | | 017 | Estimated Delivery | ٠ | |
| | | | 458 | Use to indicate an estimated pick-up d is code P1. Certification | late n | when BSN06 |
| | | | 130 | Date of a document attesting to a fact | | |
| | | | | Use to indicate the date of certification | п. | |
| Must Use | DTM02 | 373 | Date Date (YYMMDD) | | X | DT 6/6 |
| Not Used | DTM03 | 337 | Time Time expressed in 2 HHMMSSD, or HH 59) S = integer second | 4-hour clock time as follows: HHMM, of MMSSDD, where H = hours (00-23), Nonds (00-59) and DD = decimal seconds lows: D = tenths (0-9) and DD = hundre | 1 = m ; dec | inutes (00- imal seconds |
| Not Used | DTM04 | 623 | Time Code Code identifying the Organization standa in hours in relation t | e time. In accordance with International rd 8601, time can be specified by a + or to Universal Time Coordinate (UTC) tin + and - are substituted by P and M in th | Stand and ne; since code | dards d an indication ince + is a des that follow |
| | DTM05 | 624 | Century | ters in the designation of the year (CCY | O | N0 2/2 |
| Not Used | DTM06 | 1250 | Date Time Period | | X | ID 2/3 ormat |
| Not Used | DTM07 | 1251 | Date Time Period | e, a time, or range of dates, times or date | X | AN 1/35 |

Segment: N1 Name

Position: 220

Loop: N1 Optional

Level: Detail
Usage: Optional

Max Use: 1

Purpose: To identify a party by type of organization, name, and code

Syntax Notes: 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

Semantic Notes:

Comments:

1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

2 N105 and N106 further define the type of entity in N101.

Notes:

- 1. Use multiple iterations of this 2/N1/220 loop as needed in the 2/HL/010 shipment handler loop to identify organizations and points of contact for the Generator, Transporters, TSDFs, and other associated organizations.
- 2. Must use one and only one iteration of this 2/N1/220 loop in each 2/HL/010 certification loop to identify the organization, facility identification number, and the name of the individuals providing certification.
- 3. In the shipment handler loop, if only one carrier transports the waste from the ship-from location to the TSDF, must use N101 code OC. If two carriers are used, must use codes OC and DC. If three or more transporters participate, must use codes OC and DC and additionally, must use one or more iterations of code CA to indicate the intermediate carriers. Use the same pattern in certification loops, however, use only one 2/N1/220 loop per each certification loop iteration.
- 4. If ALL the line items on the manifest are associated with the same ship-from organization identify the organization in the shipment handler loop. If the ship-from organization varies by line item, then identify the location in EACH line item loop. This also applies to ship-to organizations.

Data Element Summary

| | Ref. | Data | | |
|----------|---------------------|---------------|--|----------------------|
| Must Use | <u>Des.</u> N101 | Element 98 | Name Entity Identifier Code | Attributes M ID 2/2 |
| | | | Code identifying an organizational entity, a physical locati | on, or an individual |

2F State

Use in shipment handler loops as needed to identify a state environmental agency. Must use when notifying a state environmental agency of failure to receive certification/confirmation of receipt of a hazardous waste shipment. Use only in conjunction when 1/BSN07/020 = A95.

Also Use in the Foreign Waste Shipment Summary to indicate the state receiving the report.

C4 Contract Administration Office

Established at either a contractor facility or in a geographic area, and responsible for administering on behalf of the buying activities that assigned contracts for administration and all contracts awarded to either the specific contractor or all contractors in the geographic area

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For U.S. Government shipments, must use in the shipment handler loop to indicate the Government office administering the disposal effort. Carrier

CA

Use in the shipment handler and certification loops only if more than two carriers are used. Use only to identify intermediate carriers - not the origin carrier or the destination carriers.

In shipment handler loops use multiple iterations as needed to identify carriers 3, 4, etc.

In certification loops use only one iteration of code CA (use another 2/HL/010 loop for each additional carrier).

DC Destination Carrier

> Use in the shipment handler and certification loops to indicate a second carrier that delivers the waste to the Designated Facility. Must use once and only once if more than one carrier is used.

GY Treatment Facility

> Use in the shipment handler and certification loops to indicate the shipping and/or receiving TSDF(s).

Also must use in the Foreign Waste Shipment Summary shipment handler loop to indicate the

receiving TSDF.

Intermediate Consignee IC

Use in the shipment handler and certification loops to indicate delivery to a temporary (intermediate) storage facility (not a TSDF).

Importer IM

Use in the shipment handler loop to indicate the

importer of the waste.

Origin Carrier OC

> Must use once in the shipment handler and certification loops to indicate Transporter #1

information.

Party to Receive Copy PK

Use multiple repetitions as needed in the shipment handler loop to indicate additional organization(s) to

receive copies of the transaction set.

PW Pick Up Address

> Use to indicate the pick-up location. Use only when different from code SF. Do not use in conjunction with code IC.

Use in the shipment handler loop when there is a single pick-up location for ALL line items on the

manifest. Use in ALL line item loops when there is more than

one pick-up location.

SF Ship From

1. Must use in the manifest shipment handler and certification loops to identify the Generator.
Use in the shipment handler loop when there is a single generator/pick-up location for ALL line items on the manifest.

Use in ALL line item loops when there is more than one generator/pick-up location.

2. Must use in the Foreign Waste Summary Report Shipment Handler loop to indicate the generator of the waste located in the foreign country.

SJ Service Provider

Identifies name and address information as pertaining to a service provider for which billing is being rendered Must use in DRMS shipments in the shipment handler loop to indicate the organization coordinating the disposal services.

| | N102 | 93 | Name | | X | AN 1/35 |
|----------|-------|-----|-----------------------|--|-------------|---------------|
| | | | Free-form nam | e | | |
| | N103 | 66 | insufficient. | the organization only when coded means Code Qualifier | are un X | available or |
| | 11200 | 00 | | | | |
| | | | Code (67) | ng the system/method of code structure use | a for i | dentification |
| | | | 1 | D-U-N-S Number, Dun & Bradstreet | : | |
| | | | 9 | D-U-N-S+4, D-U-N-S Number with Suffix | Four (| Character |
| | | | 10 | Department of Defense Activity Add (DODAAC) | ress C | ode |
| | | | 33 | Commercial and Government Entity | (CAG | E) |
| | | | EP | U.S. Environmental Protection Agend | cy (EP | PA) |
| | N104 | 67 | Identification | Code | X | AN 2/20 |
| | | | Code identifyin | g a party or other code | | |
| Not Used | N105 | 706 | Entity Relation | | 0 | ID 2/2 |
| | N106 | 98 | Entity Identific | er Code | O | ID 2/2 |
| | | | Code identifyin | g an organizational entity, a physical locati | on, or | an individual |
| | | | FR | Message From | | |
| | | | TO | Use to indicate that the organization transmitted the transaction set. Message To | cited | in N104 |
| | | | | Use to indicate that the organization to receive the transaction set. | cited | in N104 is |

N2 Additional Name Information Segment:

Position:

N1 Optional Loop:

Level: Detail Optional Usage:

Max Use:

To specify additional names or those longer than 35 characters in length Purpose:

Syntax Notes: Semantic Notes:

Comments:

Notes:

This segment is not necessary when the organization cited in N101 is described by a

code in N103/N104. If needed, use to provide additional name information of the

organization identified in N102.

| Must Use | Ref. <u>Des.</u> N201 | Data Element 93 | Name Name | Att M | Attributes M AN 1/35 | | |
|----------|-----------------------------|-----------------------|---------------------|----------|-------------------------|--|--|
| | N202 | 93 | Free-form name Name | 0 | AN 1/35 | | |
| | | | Free-form name | | | | |

Segment: N3 Address Information

Position: 240

Loop: N1 Optional

Level: Detail
Usage: Optional

Max Use: 2 Purpose: 1

: To specify the location of the named party

Syntax Notes: Semantic Notes:

Comments:

Notes:

This segment is not necessary when the entity cited in N101 is described by a code in

N103/N104. If needed, use to provide street address information of the organization

identified in N102.

| | Ref. <u>Des.</u> | Data Element | Name | Attributes |
|----------|---------------------|-----------------|---------------------|------------|
| Must Use | N301 | 166 | Address Information | M AN 1/35 |
| | 1,001 | 100 | Address information | WI AN 1/33 |
| | N302 | 166 | Address Information | O AN 1/35 |
| | | | Address information | |

Segment: N4 Geographic Location

Position: 250

Loop: N1 Optional

Level: Detail
Usage: Optional

Max Use:

Purpose: To specify the geographic place of the named party

Syntax Notes: Semantic Notes:

1 If N406 is present, then N405 is required.

Comments:

1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

2 N402 is required only if city name (N401) is in the U.S. or Canada.

Notes: This segment is not necessary when the entity cited in N101 is described by a code in

N103/N104. If needed, use to provide geographical location information of the organization identified in N102.

| Ref. | Data | Data Element Summary | | |
|---------------------|---------|---|--------|----------------|
| Des. | Element | Name | Att | <u>ributes</u> |
| <u>Des.</u> N401 | 19 | City Name | O | AN 2/30 |
| 11102 | | Free-form text for city name | | |
| N402 | 156 | State or Province Code | O | ID 2/2 |
| 11402 | 100 | Code (Standard State/Province) as defined by appropriate go | overn | ment agency |
| N403 | 116 | Postal Code | O | ID 3/15 |
| 11403 | , 110 | Code defining international postal zone code excluding pun | ctuati | ion and blanks |
| | | (zip code for United States) | | |
| N404 | 26 | Country Code | O | ID 2/3 |
| 11.00 | | Code identifying the country | | |
| N405 | 309 | Location Qualifier | X | ID 1/2 |
| 11405 | | Code identifying type of location | | |
| | | Refer to 003060 Data Element Dictionary for acceptable co | de va | lues. |
| N1406 | 310 | Location Identifier | O | AN 1/30 |
| N406 | 310 | Code which identifies a specific location | | |
| | | Code which identifies a specific foodfor | | |

REF Reference Identification Segment:

Position:

Loop: N1 Optional

Level: Detail Usage: Optional Max Use: 12

Purpose:

To specify identifying information

Syntax Notes: At least one of REF02 or REF03 is required.

- If either C04003 or C04004 is present, then the other is required. 3 If either C04005 or C04006 is present, then the other is required.
- 1 REF04 contains data relating to the value cited in REF02.

Semantic Notes: Comments:

Notes:

1. Use this 2/REF/260 segment in the 2/HL/010 shipment handler loop to indicate the state identification numbers for the specified organization.

2. Must use in each certification loop to provide the personal identification number (PIN) of the person certifying transfer.

| | | | Data l | Element Summary | | |
|------------|---------|----------------|----------------------------------|---|------------------|----------------------------|
| | Ref. | Data | | · | | |
| | Des. | Element | <u>Name</u> | | At | <u>tributes</u> |
| Must Use | REF01 | 128 | | ntification Qualifier | M | ID 2/3 |
| | | | Code qualifyin | g the Reference Identification | | |
| | | | 1 J | Facility ID Number | | |
| | | , | | Must use in the 2/HL/010 shipment indicate the state identification num carriers or facilities. Use in same lo N101 codes: OC, DC, CA, IC and G | bers f op ite | or the |
| | | | | 2. Must use in the 2/HL/010 Foreig shipment handler loop to indicate th state identification number. | n Was e rece | ste Summary viving TSDF |
| | | | 4A | Personal Identification Number (PIN) |) · | |
| | | | | A number that uniquely identifies an | | dual |
| | | | | Use to indicate the certifier's PIN. | marvi | duai |
| Must Use | REF02 | 127 | Reference Ider | | *27 | 4 NI 4 /20 |
| Wast 630 | ICDI UZ | | Reference infor | rmation as defined for a particular Transacti Reference Identification Qualifier | X on Se | AN 1/30 t or as |
| Not Used | REF03 | 352 | Description | variation Quantities | X | AN 1/80 |
| | | | A free-form des | scription to clarify the related data elements | | heir content |
| Not Used | REF04 | C040 | Reference Iden | | O | |
| | | | To identify one specified by the | or more reference numbers or identification Reference Qualifier | ı num | bers as |
| Not Used | C04001 | 128 | | tification Qualifier | M | ID 2/3 |
| | | | Code qualifying | the Reference Identification | | |
| Not Used | C04002 | 127 | Reference Iden | | M | AN 1/30 |
| | | | Reference infor | mation as defined for a particular Transaction | on Set | or as |
| NI-4 II- J | G0.4003 | 400 | specified by the | Reference Identification Qualifier | | |
| Not Used | C04003 | 128 | Reference Iden | tification Qualifier | X | ID 2/3 |
| Not Hand | C04004 | 105 | | the Reference Identification | | |
| Not Used | C04004 | 127 | Reference Iden | tification | X | AN 1/30 |

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| | | | Reference information as defined for a particular Transac | tion Set | t or as |
|-----------|--------|-----|---|--------------|---------|
| | | | specified by the Reference Identification Qualifier | | |
| Not Used | C04005 | 128 | Reference Identification Qualifier | \mathbf{X} | ID 2/3 |
| 1100 0000 | 201100 | | Code qualifying the Reference Identification | | |
| Not Used | C04006 | 127 | Reference Identification | X | AN 1/30 |
| 1101 0304 | | | Reference information as defined for a particular Transac | tion Se | t or as |
| | | | specified by the Reference Identification Qualifier | | |

PER Administrative Communications Contact Segment:

Position:

Loop: N1 Optional

Level: Detail Usage: Optional Max Use:

Purpose:

To identify a person or office to whom administrative communications should be directed

Syntax Notes: If either PER03 or PER04 is present, then the other is required.

2 If either PER05 or PER06 is present, then the other is required.

If either PER07 or PER08 is present, then the other is required. 3

Semantic Notes: Comments:

Notes:

1. Use multiple repetitions of this 2/PER/270 segment as needed within each 2/N1/220 loop within the 2/HL/010 shipment handler loop to identify points of contact and communication numbers of the Generator, Transporters, TSDFs, and other organizations as needed.

- 2. Must use one repetition of this 2/PER/270 segment for each iteration of the 2/N1/220 loop within each 2/HL/010 certification loop to identify the name of the individual making the certification and communications numbers.
- 3. Use multiple repetitions as needed to identify a point(s) of contact and multiple communication numbers. When using multiple repetitions to identify different communications numbers for a single point of contact, repeat the name cited in PER02.

| | Ref. | Data | Data Eler | nent Summary | |
|----------|---------------|----------------|--|--|--|
| Must Use | Des. PER01 | Element 366 | Name Contact Function Code identifying the | Code he major duty or responsibility of the pe | Attributes M ID 2/2 erson or group named |
| | | | CE | Certifier | |
| | | | EM | Must use in each 2/HL/010 certification indicate the certifying individual with organization specified in the corresponding to the corr | thin the ponding N1 |
| | | | | Use in the 2/HL/010 shipment hand conjunction with any N101 code (exindicate an emergency point of continuity of continuity). | ccept PK) to |

indicate an emergency point of contact.

HM Hazardous Material Contact

> Use in the 2/HL/010 shipment handler loop in conjunction with any N101 code (except PK) to indicate the hazardous material point-of-contact for the organization specified in the corresponding N1

segment.

IC Information Contact

> Use in the 2/HL/010 shipment handler loop in conjunction with any N101 code to indicate an individual point-of-contact within the organization specified in the corresponding N1 segment.

PER02 93 Name Free-form name 1. Must Use in Certification loops. 2. Provide the last name, first name, middle initial and rate/rank/title as required, of the individual(s). Include blank spaces between name components and periods after initials. Do not include NMN when a middle initial is not available. ID 2/2Communication Number Qualifier X 365 PER03 Must Use Code identifying the type of communication number 1. Use to identify types of communications. 2. Mustuse one of codes TE or IT to identify the preferred method of communication. Use PER05/06 and PER07/08 to identify additional communications numbers. Use additional repetitions of the PER segment to identify more than three numbers. 3. Do not include blank spaces or dashes between numbers. International Telephone IT Include country and city codes as needed. Telephone TE Use to indicate the commercial telephone number. Include the area code and number. Must use this code AN 1/80 X Communication Number PER04 364 Must Use Complete communications number including country or area code when applicable X ID 2/2Communication Number Qualifier PER05 365 Code identifying the type of communication number 1. Use to identify an alternate, or secondary, communications number which can be used to contact the entity identified in PER01. 2. Do not include blank spaces or dashes between numbers. Defense Switched Network AU Department of Defense telecommunications system and successor of the Automatic Voice Network (AUTOVON) Electronic Mail **EM** Telephone Extension EX When used, there must be a previous communication number citing either a national or international telephone number. Facsimile FX International Telephone IT Include country and city codes as needed.

AN 1/35

TE

Telephone

Use to indicate the commercial telephone number. Include the area code and number.

| PER06 | 364 | Communication | | X | AN 1/80 | | | | |
|--------|-----|---------------------------|---|-------------|--------------|--|--|--|--|
| | | | nunications number including country | or area co | de when | | | | |
| PER07 | 365 | applicable Communication | on Number Qualifier | X | ID 2/2 | | | | |
| I EITO | 203 | | g the type of communication number | А | ID 2/2 | | | | |
| | | | | uiontione: | | | | | |
| | | can be used to | 1. Use to identify an alternate, or secondary, communications number which can be used to contact the entity identified in PER01. | | | | | | |
| | | 2. Do not inclu | de blank spaces or dashes between nu | mbers. | | | | | |
| | | AU | Defense Switched Network | | | | | | |
| | | | Department of Defense telecomn | nunication | s system and | | | | |
| | | | successor of the Automatic Voice | | | | | | |
| | | TO A | (AUTOVON) | | | | | | |
| | | EM | Electronic Mail | | | | | | |
| | | EX | Telephone Extension | _ | | | | | |
| | | | When used, there must be a prev number citing either a national of | | | | | | |
| | | | telephone number. | or interna | nonai · | | | | |
| | | FX | Facsimile | | | | | | |
| | | IT | International Telephone | | | | | | |
| | | | Include country and city codes a | s needed. | | | | | |
| | | TE | Telephone | | | | | | |
| | | | Use to identify the commercial to Include the area code and numb | | number. | | | | |
| PER08 | 364 | Communicatio | n Number | X | AN 1/80 | | | | |
| | | Complete commapplicable | nunications number including country of | or area coc | le when | | | | |
| PER09 | 443 | Contact Inquir | y Reference | O | AN 1/20 | | | | |

Additional reference number or description to clarify a contact number

SE Transaction Set Trailer Segment:

Position: 020

Loop:

Summary Level: Mandatory Usage:

Max Use:

To indicate the end of the transaction set and provide the count of the transmitted Purpose:

segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:

Semantic Notes:

SE is the last segment of each transaction set. **Comments:**

| Must Use | Ref. <u>Des.</u> SE01 | Data <u>Element</u> 96 | Name Number of Included Segments Total number of segments included in a transaction set including ST and SE |
|----------|-----------------------------|------------------------------|---|
| Must Use | SE02 | 329 | Transaction Set Control Number M AN 4/9 Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set |
| | | | This is the same number that appears in ST02. |

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